HP System Management Homepage Release Notes

HP-UX, Linux, and Windows Systems

Table of Contents

List of Tables

About this document

Intended audience

The HP System Management Homepage (HP SMH) is a web-based interface that consolidates and simplifies single system management for HP servers on HP-UX, Linux, and Microsoft® Windows® operating systems. This release notes is for system administrators and any level of user of HP SMH.

New and changed information in this edition

These sections list what is new for the HP SMH releases.

December 2007 release for Linux and Windows

HP SMH 2.1.11 provides the following functionality over previous HP SMH releases:

Added operating system support to include:

- Red Hat Enterprise Linux 5.0 for x86 Update 1
- Red Hat Enterprise Linux 5.0 for AMD64 and Intel EM64T Update 1
- Red Hat Enterprise Linux 5.0 for AMD64 and x86 Update 1
- Red Hat Enterprise Linux 5.0 for Integrity Linux Update 1
- Red Hat Enterprise Linux 4.0 for x86, Update 6
- Red Hat Enterprise Linux 4.0 for x86, Update 6
- Red Hat Enterprise Linux 4.0 for AMD64 and EM64T, Update 6
- Red Hat Enterprise Linux 4.0 for Integrity Linux, Update 6
- SUSE Linux Enterprise Server 9 for x86, Service Pack 4
- SUSE Linux Enterprise Server 9 for AMD64 and Intel EM64T, Service Pack 4
- SUSE Linux Enterprise Server 9 for Integrity Linux, Service Pack 4
- Windows Server 2008
- XenSource

Added functionality for controlling the size of log files.

Added the functionality of setting multiple names to a certificate (multihomed certificate).

October 2007 release for Linux and Windows

HP SMH 2.1.10 provides the following functionality over previous HP SMH releases:

Added Windows 2000 operating system support for SMH 2.1.10

September 2007 release for HP-UX

HP SMH 2.2.6 provides the following functionality over previous HP SMH releases:

- Provided support for the HP-UX 11i v3 (B.11.31), HP-UX 11i v2 (B.11.23), and HP-UX 11i v1 (B.11.11) releases
- Delivered defect fixes to the HP-UX 11i releases

August 2007 release for Linux and Windows

HP SMH 2.1.10-00 provides the following functionality over previous HP SMH releases:

Added operating system support to include:

- Red Hat Enterprise Linux 4.0 for Itanium Upgrade 5
- SUSE Linux Enterprise Server 10 for Itanium Service Pack 1

June 2007 release for HP-UX

HP SMH 2.2.6 provides the following functionality over previous HP SMH releases:

- Provided support for the HP-UX 11i v2 (B.11.23) and HP-UX 11i v1 (B.11.11) releases. This HP SMH release is not for HP-UX 11i v3 (B.11.31)
- New web-based solution for Role-based Access Control (RBAC)
- Delivered defect fixes to the HP-UX 11i releases

April 2007 release for Linux and Windows

HP SMH 2.1.8 provides the following functionality over previous HP SMH releases:

Added operating system support to include:

- Red Hat Enterprise Linux 5 for x86
- Red Hat Enterprise Linux 5 for AMD64 and Intel EM64T
- Red Hat Enterprise Linux 5 for Itanium

Added security fixes:

- Updated PHP security

February 2007 release for HP-UX

HP SMH 2.2.5 provides the following functionality over previous HP SMH releases:

- Provided support for new HP-UX 11i v3 (B.11.31) Enterprise release
- New web-based solutions for Networking and Communications (ncweb), and ServiceGuard complex management (sgmgr)
- Delivered defect fixes to the HP-UX 11i releases
- System Administration Management Tool Changes: SAM and HP SMH

  HP-UX System Administration Manager (SAM) is deprecated in HP-UX 11i v3. HP SMH is the system administration tool for managing HP-UX 11i. HP SMH provides web-based systems management functionality, at-a-glance monitoring of system component health and consolidated log viewing. HP SMH also provides a Terminal User Interface (TUI). SAM continues to provide access to TUI (Terminal User Interface) and X-based interfaces. More details on HP SMH are available in the *Next generation single-system management on HP-UX 11i v2 (B.11.23)* white paper located at http://docs.hp.com/en/4AA0-4052ENW/4AA0-4052ENW.pdf.

  Some of the key changes are described below:

  — The SAM Functional Area Launcher (FAL) is replaced by the HP SMH web-based Graphical User Interface (GUI).
  — The enhanced TUI offers improved look and feel, online viewing of manpages, command previews, and other improvements.
  — For HP-UX 11i v3 (B.11.31) only, a new command, *smh*(1m) is introduced (/usr/sbin/smh), which is an enhanced version of the *sam*(1m) command (/usr/sbin/sam).
  — For HP-UX 11i v3 (B.11.31) only, the sam command in /usr/sbin/sam is deprecated. Any invocation of /usr/sbin/sam will display the deprecation message and launch /usr/sbin/smh automatically.

January 2007 release for Linux and Windows

HP SMH 2.1.7 provides the following functionality over previous HP SMH releases:

Added operating system support to include:
- Windows Vista
- SUSE Linux Enterprise Server 10 for x86
- SUSE Linux Enterprise Server 10 for AMD64 and Intel EM64T
- SUSE Linux Enterprise Server 10 for Itanium

Added browser support to include:
- Internet Explorer 7.0

December 2006 release for HP-UX

HP SMH 2.2.5 provides the following functionality over previous HP SMH releases:
- Delivered defect fixes to the HP-UX 11i v1 (B.11.11) release
- Implemented the Management Processor link and property page
- Additional WBEM-based property pages for hardware attributes and status, only for HP-UX 11i v1 (B.11.11)

September 2006 release for HP-UX

HP SMH 2.2.4 provides the following functionality over previous HP SMH releases:
- Delivered defect fixes to the HP-UX 11i v2 (B.11.23) release
- Implemented support for all SIM status icons
- Implemented support for configurable session timeout period

June 2006 release for Linux and Windows

HP SMH 2.1.6 provides the following functionality over previous HP SMH releases:
- Added browser support to include:
  — Firefox 1.5.0.1
- Added operating system support to include:
  — Windows Server 2003 R2 SBS
  — Windows Server 2003 Web Edition

June 2006 release for HP-UX

HP SMH 2.2.3 provides the following functionality over previous HP SMH releases:
- Delivers defect fixes to the HP-UX 11i v2 (B.11.23) release

March 2006 release for HP-UX

HP SMH 2.2.2 provides the following functionality over previous HP SMH releases:
- Delivers defect fixes to the HP-UX 11i v2 (B.11.23) release
- Event management providing WBEM event subscription and local system event monitoring
- WBEM-based property pages for hardware attributes and status

February 2006 release for Linux and Windows

HP SMH 2.1.4 provides the following functionality over previous HP SMH releases:
- Added operating system support to include:
  — Novell Open Enterprise Server (OES) with Service Pack 1 or later
  — Windows Server 2003 R2
  — Red Hat Enterprise Linux 3 for x86 Update 6
  — Red Hat Enterprise Linux 4.0 for x86 Update 2

- — Red Hat Enterprise Linux 4.0 for Itanium Update 2
- — SUSE Linux Enterprise Server 9 for x86 Service Pack 3
- — SUSE Linux Enterprise Server 9 for x86 Service Pack 3
- — SUSE Linux Enterprise Server 9 for AMD64 and Intel EM64T Service Pack 3
- — SUSE Linux Enterprise Server 9 for Itanium Service Pack 3
- Added browser support to include:
  - — Mozilla 1.7
  - — Firefox 1.0.2

  For a complete list of supported browsers and operating systems, see "System requirements" (page 19)
- Supports customers modifying the maximum number of threads that HP SMH launches
- Supports customers enabling the use of SSLv2
- Added security fixes:
  - — Updated OpenSSL to v0.9.7i
  - — Updated Apache and PHP security
- Log rotation

December 2005 release for HP-UX

HP SMH 2.2 provides the following functionality over previous HP SMH releases:
- Delivers an upgrade to the HP-UX 11i v2 (B.11.23) release
- Supports flexible launching of X applications and command line interface (CLI) commands through a web interface
- Supports visualization of the HP-UX System Administration Manager (SAM) log file through the SAM Log Viewer
- Supports visualization of system information through the Property Pages
- Supports customers adding custom menus to HP SMH to run commands, launch X applications, and link to other web-based applications or websites
- For HP-UX, key functional areas of the HP-UX System Administration Manager (SAM) have been enhanced to provide web-based management capabilities and are now based on HP SMH. These include such areas as Partition Management, Peripheral Devices, Disks & File Systems, Users and Groups, and Kernel Configuration.

September 2005 release for HP-UX

HP SMH 2.2 provides the following functionality over previous HP SMH releases:
- Delivered the first HP-UX 11i v1 (B.11.11) release

July 2005 Web release for Linux/Windows

HP SMH 2.1 provides the following added functionality over previous HP SMH releases:
- Added access support for the Power Users group for Windows platforms
- Added support for managed systems running Intel Itanium
- Removed unused Linux library files. No impact to usability or performance
- Resolved potential NIC binding issues with Linux platforms
- Corrected NIC teaming issue in Windows environments, where IP address information may be incomplete
- Corrected Windows registry problem, where the HP SMH installer version may not be updated
- Added operating system support for new Windows and Linux platforms
- HP SMH installer changed to remove Java dependencies

May 2005 release for HP-UX

HP SMH 2.2 provides the following functionality for the initial Management HTTP Server release of HP-UX:

- Delivered the first HP-UX 11i v2 (B.11.23) release
- Supported the HP-UX Tomcats application
- Standardized the HP-UX Graphical User Interface (GUI)
- Enhanced the authentication and authorization functionality
- Delivered HP SMH as a default-installed bundle (`SysMgmtWeb`) on the HP-UX 11i v2 (B.11.23) Operating Environment (OE) and Applications (AR) media. It also delivered on the HP Software Depot web site: http://www.hp.com/go/softwaredepot
- After install, did not require any configuration tasks
- Browser access using SSL Secure OS based authentication
- Common HTTP/HTTPS service for HP management agents and utilities, for reduced complexity and system resource requirements
- Simplified architecture for implementing HTTP security and HP management updates
- Greater access control through NIC binding and advanced configuration features for individual and groups of users
- Broader operating system and browser support. See "System requirements" (page 19)

Typographic conventions

find(1)	HP-UX manpage. In this example, "find" is the manpage name and "1" is the manpage section.
Book Title	Title of a book or other document.
Linked Title	Title that is a hyperlink to a book or other document.
http://www.hp.com	A Web site address that is a hyperlink to the site.
`Command`	Command name or qualified command phrase.
user input	Commands and other text that you type.
`computer output`	Text displayed by the computer.
Enter	The name of a keyboard key. Note that **Return** and **Enter** both refer to the same key. A sequence such as **Ctrl+A** indicates that you must hold down the key labeled **Ctrl** while pressing the **A** key.
term	Defined use of an important word or phrase.
`variable`	The name of an environment variable, for example `PATH` or `errno`.
value	A value that you may replace in a command or function, or information in a display that represents several possible values.
`<element>`	An element used in a markup language.
`attrib=`	An attribute used in a markup language.

Document organization

The release notes is organized as follows:

Related information

This section lists the HP System Management Homepage (HP SMH) documentation and related HP documentation.

HP SMH documentation

For more information regarding HP SMH, refer to the following sources:

- *HP System Management Homepage Release Notes*   The release notes provide documentation for what's new with the release, features and change notifications, system requirements, and known issues. The release notes are available on the HP Technical Documentation web site at http://docs.hp.com.

- **HP System Management Homepage Help System**   The help system provides a complete set of documentation for using, maintaining, and troubleshooting HP SMH. In the HP SMH application, go to the **Help** menu.

- *HP System Management Homepage Installation Guide*   The install guide provides information about installing and getting started using HP SMH. It includes an introduction to basic concepts, definitions, and functionality associated with HP SMH. The install guide is available on the HP Technical Documentation web site at http://docs.hp.com. Also, for Linux and Windows releases, the install guide is available on the Management CD and at the HP SMH web page at http://h18013.www1.hp.com/products/servers/management/agents/documentation.html.

- *HP System Management Homepage User Guide*   The user guide provides a complete set of documentation for using, maintaining, and troubleshooting HP SMH. For Linux and Windows, this user guide is available under the HP SMH Help menu, and on the HP Technical Documentation web site at http://docs.hp.com. For HP-UX, we no longer provide a printed user guide, please refer to the HP SMH online help content for information on how to use, maintain, and troubleshoot HP SMH.

- **Next generation single-system management on HP-UX 11i v2 (B.11.23)**   A white paper that introduces HP SMH and its various plug-ins. The use cases involving HP SMH plug-ins described in this document highlight the features provided by HP SMH. The white paper is available on the HP Technical Documentation web site at http://docs.hp.com/en/4AA0-4052ENW/4AA0-4052ENW.pdf.

- *hpsmh* **(1m) manpage**   For HP-UX releases, the manpage is available from the command line using the man hpsmh command. This information is not available for Linux and Windows.

- *smhstartconfig* **(1M) manpage**   For HP-UX releases, the manpage is available from the command line using the man smhstartconfig command. This information is not available for Linux and Windows.

- *sam***(1M) manpage**   For HP-UX releases, the manpage is available from the command line using the man sam command. This information is not available for Linux and Windows. Please note the SAM command was deprecated for the HP-UX 11i v3 (B.11.31) February 2007 release only. For more information, see the *HP-UX Release Notes* on the HP Technical Documentation web site at http://docs.hp.com.

- *smh* **(1m) manpage**   This command is available in HP-UX 11i v3 (B.11.31) only. This is an enhanced version of the *sam*(1m) command. For HP-UX releases, the manpage is available from the command line using the man smh command. This information is not available for Linux and Windows.

- **HP System Management Homepage web site**   The web site provides HP SMH information and product links. Go to the HP web site at http://www.hp.com or to the Software Depot

home at http://www.hp.com/go/softwaredepot and search for System Management Homepage.

- HP ProLiant Essentials software page at http://www.hp.com/servers/manage.

Related documentation

For more information relating to HP SMH, refer to the following sources. They are available on the Instant Information DVD and on the HP Technical Documentation web site at http://docs.hp.com.

- **HP-UX 11i Installation and Update Guides (v1, B.11.11; v2, B.11.23; v3 B.11.31)** Provide instructions on how to install or update to HP-UX.

- **HP-UX 11i Release Notes (v1, B.11.11; v2, B.11.23; v3 B.11.31)** Describe new features and functionality changes for HP-UX 11i, including information on HP SMH.

📝 **NOTE:** For HP-UX release documentation, check for the latest version on http://docs.hp.com.

Publishing history

This section provides the publishing history of the document.

Manufacturing Part Number	Supported Operating Systems	Supported Versions	Edition Number	Publication Date
438861-007	Linux and Windows	HP SMH 2.1.11	14	December 2007
438861-006	HP-UX	HP-UX 11i v3 (B.11.31), HP-UX 11i v2 (B.11.23), HP-UX 11i v1 (B.11.11)	13	September 2007
438861-005	Linux and Windows	HP SMH 2.1.10-00	12	August 2007
438861-004	Linux and Windows	HP SMH 2.1.10	11	June 2007
438861-003	HP-UX	HP-UX 11i v2 (B.11.23), HP-UX 11i v1 (B.11.11)	10	June 2007
438861-002	Linux and Windows	HP SMH 2.1.8	9	April 2007
381383-009	HP-UX	HP-UX 11i v3 (B.11.31)	8	February 2007
438861-001	Linux and Windows	HP SMH 2.1.7	7	January 2007
381383-008	HP-UX	HP-UX 11i v2 (B.11.23), HP-UX 11i v1 (B.11.11)	6	December 2006
381383-007	HP-UX	HP-UX 11i v2 (B.11.23), HP-UX 11i v1 (B.11.11)	5	September 2006
381383-006-en	HP-UX, Linux, and Windows	For HP-UX: HP-UX 11i v2 (B.11.23). For Linux and Windows: See "System requirements" (page 19).	4	June 2006
381383-005	Linux and Windows	See "System requirements" (page 19).	4	February 2006

Manufacturing Part Number	Supported Operating Systems	Supported Versions	Edition Number	Publication Date
381383-004-en	HP-UX	HP-UX 11i v2 (B.11.23), HP-UX 11i v1 (B.11.11)	3	December 2005
381383-002	HP-UX	HP-UX 11i v2 (B.11.23), HP-UX 11i v1 (B.11.11)	2	September 2005
381383-002	HP-UX	HP-UX 11i v2 (B.11.23), HP-UX 11i v1 (B.11.11)	2	May 2005
381383-001	Linux and Windows	See "System requirements" (page 19).	1	November 2004

HP encourages your comments

HP encourages your comments concerning this document. HP is committed to providing documentation that meets your needs. Send any errors found, suggestions for improvement, or compliments to: **feedback@fc.hp.com**. Include the document title, manufacturing part number, and any comment, error found, or suggestion for improvement you have concerning this document.

1 Features

The HP System Management Homepage (HP SMH) for HP-UX, Linux, and Windows provides the following features. They apply to all releases, except where noted.

Product features

- **HP Insight Management Agent Security**   Provides security for HP Insight Management Agents using the Secure Sockets Layer (SSL) for Linux and Windows.

- **Web-based Applications Security**   Provides web-based applications and security using SSL.

- **Configure Trust Mode**   Enables you to configure the trust mode level.

- **Manage User Groups**   Manages the user system access through the user group account.

- **Display HP Web-enabled System Management Software Information**   Displays all HP Web-enabled System Management Software that provides information to HP SMH.

Partition Manager

To start Partition Manager, a user with Administrator (root) privileges can run the `parmgr` command with the `-b` option to bypass the authentication step under HP SMH. To use this feature on HP-UX 11i v1, you must install `KRNG11i`, the Strong Random Number Generator software for HPUX 11i v1, available from the Software Depot web site at http://www.hp.com/go/softwaredepot.

Available IP addresses

In HP-UX only, when autostart mode is enabled, any access made through port 2301 detects a change in the list of available IP addresses. In previous releases, SMH would only be accessible using the IP addresses defined at system startup. If new IP addresses were defined then SMH would have to be restarted to use them.

With this new SMH feature, any configuration change in the list of available IP addresses, in clustered and non-clustered environments, would automatically reconfigure SMH, restarting it when needed. Environment changes such as enabling a new network card, adding ifconfig aliases, or a cluster package failover would trigger this feature.

Alternatively, you can disable this feature by adding the following line to the `/opt/hpsmh/conf.common/smhpd.xml` file:

`<monitor-ip-changes>0</monitor-ip-changes>`

For more information, go to the *Distributed Systems Administration Utilities V1.1 Release Notes for HP-UX 11i v2 March 2006* at http://docs.hp.com/en/T2786-90011/ch01s01.html.

Integrated applications to HP SMH

HP SMH is a framework for a number of integrated applications. HP SMH provides the following system management functionality through a single user interface, the HP SMH Graphical User Interface (GUI).

Table 1-1 HP SMH integrated applications

Application Name	Operating System	Application Description
Accounts for Users and Groups (ugweb)	HP-UX	The Accounts for Users and Groups (ugweb) tool is a web-based single-system management tool for managing user accounts and groups on a local and Network Information Service (NIS) system. For more information, see the product's online help.
Audit Configuration	HP-UX	Audit events, system calls, and users.
Authenticated Commands (PAM)	HP-UX	Using Pluggable Authentication Modules (PAM), configure account authentication, password authentication, session authentication, and user authentication.
Disks and File Systems (fsweb)	HP-UX	The Disks and File Systems (fsweb) tool supports system administration tasks, including management of logical groups and volume groups, disk management tasks, and file system tasks. The fsweb tool supports these file systems: Cache File System (CFS), Compact Disc File System (CDFS), Common Internet File System (CIFS), Hierarchical File System (HFS), Network File System (NFS), and Veritas File System (VxFS). For more information, see the product's online help.
Distributed System Authentication Utilities (DSAU)	HP-UX	Distributed Systems Administration Utilities provide several tools for simplifying the management of groups of systems and Serviceguard clusters. Configure configuration synchronization, consolidated logging, and view system logs.
Error Management Technology (EMT)	HP-UX	Error Management Technology provides a quick, easy method of accessing error/cause/action information on all system errors. Use it to query or customize error data.
EVWEB	HP-UX	EVWEB is a user component of System Fault Management (SFM). Using evweb, you can view and administer various Web-Based Enterprise Management (WBEM) events that are generated on an HP-UX system. For more information, see the product's online help.
IPMI Event Viewer	HP-UX	View hardware events.
Kernel Configuration (kcweb)	HP-UX	The kcweb tool allows the user to configure an HP-UX kernel and to monitor consumption of kernel resources controlled by parameters. For more information, see the product's online help.

Table 1-1 HP SMH integrated applications *(continued)*

Application Name	Operating System	Application Description
Network Interfaces Configuration	HP-UX	Network Interfaces Configuration is a web-based system management tool that enables you to configure network interfaces on HP-UX installed systems. For more information, see the product's online help.
Network Services Configuration (ncweb)	HP-UX	The ncweb tools allows the user to configure network services. For more information, see the product's online help.
Partition Manager (parmgr)	HP-UX, Linux, Windows	Partition Manager (parmgr) is a web-based application that allows system administrators to use a convenient graphical user interface (GUI) to configure and manage nPartitions on HP server systems. Partition Manager can also detect several types of configuration problems. For more information, see the product's online help.
Peripheral Devices Configuration (pdweb)	HP-UX	The pdweb tool lists and manages the OLRAD-capable PCI slots reported by the olrad command and Peripheral Devices reported by the ioscan command. On selecting a slot/device from the list, it displays details about the selected device/slot. It allows a user to Add / Replace / Delete an OLRAD-capable card online, to view the devices reported by ioscan command, and to re-install the Device Special Files where possible. For more information, see the product's online help.
Printer Management	HP-UX	Configure printers or plotters, manage print requests, and save or restore print spooler configuration.
Resource Management	HP-UX	Using the Event Monitoring Service, configure and view resource monitoring requests on the managed node.
Resource Monitors	HP-UX	Configure the display monitor, and configure the X server.
Role-based Access Control (RBAC)	HP-UX	Allows you to distribute administrative responsibilities by creating roles with appropriate authorizations and assigning them to non-root users and groups.
Security Attributes Configuration (secweb)	HP-UX	The secweb tool enables you to configure system-wide and per user values of security attributes of local and Network Information Service (NIS) users. For more information, see the product's online help.

Table 1-1 HP SMH integrated applications *(continued)*

Application Name	Operating System	Application Description
Serviceguard Cluster - Serviceguard Manager	HP-UX, Linux, Windows	Serviceguard allows you to create high availability clusters of HP 9000 and HP Integrity servers. In the event of a component failure, Serviceguard coordinates the failover process by transferring it to other highly available component(s) thereby preventing a network, hardware, or software issue from significantly disrupting service. Serviceguard Manager is the graphical user interface for Serviceguard. You can then do the following: Monitor, Administer, Configure Serviceguard clusters. For more information, see the product's online help.
Software Management	HP-UX	Copy depot software, install software, list depot software, list Installed software, remove depot software, and remove installed software.
Time	HP-UX	Set the system clock, list the NTP client networks, and display NTP network time sources.

2 System requirements

This chapter provides the minimum system requirements for the HP-UX, Linux, and Windows systems to run HP System Management Homepage (HP SMH).

Supported operating systems

HP SMH supports the following operating systems for the HP-UX, Linux, and Windows systems:

- HP-UX 11i v3 (B.11.31) for HP Integrity Servers and HP 9000 Servers
- HP-UX 11i v2 (B.11.23) for HP Integrity Servers and HP 9000 Servers
- HP-UX 11i v1 (B.11.11) for HP Servers and Workstations
- Red Hat Enterprise Linux 5.0 for x86 Update 1
- Red Hat Enterprise Linux 5.0 for AMD64 and Intel EM64T Update 1
- Red Hat Enterprise Linux 5.0 for AMD64 and x86 Update 1
- Red Hat Enterprise Linux 5.0 for Itanium Linux Update 1
- Red Hat Enterprise Linux 5.0 for x86
- Red Hat Enterprise Linux 5.0 for AMD64 and Intel EM64T
- Red Hat Enterprise Linux 5.0 for AMD64 and x86
- Red Hat Enterprise Linux 5.0 for Integrity Linux
- Red Hat Enterprise Linux 4.0 for x86, Update 6
- Red Hat Enterprise Linux 4.0 for AMD64 and EM64T, Update 6
- Red Hat Enterprise Linux 4.0 for AMD64 and x86 Update 6
- Red Hat Enterprise Linux 4.0 for Itanium Linux, Update 6
- Red Hat Enterprise Linux 4.0 for x86, Update 5
- Red Hat Enterprise Linux 4.0 for AMD64 and EM64T, Update 5
- Red Hat Enterprise Linux 4.0 for AMD64 and x86 Update 5
- Red Hat Enterprise Linux 4.0 for Integrity Linux, Update 5
- Red Hat Enterprise Linux 4.0 for x86, Update 4
- Red Hat Enterprise Linux 4.0 for AMD64 and EM64T, Update 4
- Red Hat Enterprise Linux 4.0 for AMD64 and x86 Update 4
- Red Hat Enterprise Linux 4.0 for Integrity Linux, Update 4
- SUSE Linux Enterprise Server 10 for x86
- SUSE Linux Enterprise Server 10 for AMD64 and Intel EM64T
- SUSE Linux Enterprise Server 10 for Itanium Linux
- SUSE Linux Enterprise Server 10 for x86 Service Pack 1
- SUSE Linux Enterprise Server 10 for AMD64 and Intel EM64T Service Pack 1
- SUSE Linux Enterprise Server 10 for Itanium Linux, Service Pack 1
- SUSE Linux Enterprise Server 9 for x86, Service Pack 4
- SUSE Linux Enterprise Server 9 for AMD64 and Intel EM64T, Service Pack 4
- SUSE Linux Enterprise Server 9 for Itanium Linux, Service Pack 4
- SUSE Linux Enterprise Server 9 for x86, Service Pack 3
- SUSE Linux Enterprise Server 9 for AMD64 and Intel EM64T, Service Pack 3
- SUSE Linux Enterprise Server 9 for Integrity Linux, Service Pack 3
- Novell Open Enterprise Server (OES) with Service Pack 1 or later
- ESX 3.0
- ESX 3.0.1
- ESX 3.0.2
- ESX 3.1

- Microsoft Windows Server 2003 SP2
- Microsoft Windows 2003 R2 Datacenter Edition (DCE)
- Microsoft Windows Server 2003 R2 SBS
- Microsoft Windows Server 2003 Slipstream, Standard Edition
- Microsoft Windows Server 2003 Slipstream, Web Edition RTM
- Microsoft Windows Server 2003 Slipstream, Enterprise Edition RTM
- Microsoft Windows Server 2003 SBS, Standard and Premium
- Microsoft Windows Server 2003 Web Edition
- Microsoft Windows Server 2003, Enterprise Edition for Itanium-based Systems
- Microsoft Windows Server 2003, Datacenter Edition for Itanium-based Systems
- Microsoft Windows XP
- Microsoft Windows Server 2008
- Microsoft Windows Vista
- XenSource

NOTE: For Linux, the Lightweight Directory Access Protocol (LDAP) is supported on SUSE Linux Enterprise Server 9.

For Windows, the SmartStart CD requires that all systems have a minimum of 256 MB of RAM.

The HP-UX 11i v1 (B.11.11) Operating Environments are for PA-RISC systems only. The HP-UX 11i v2 (B.11.23) Operating Environments (September 2004 and later) and HP-UX 11i v3 (B.11.31) Operating Environments (February 2007 and later) support both PA-RISC and Itanium systems.

Supported browsers

This section lists the supported browsers for the HP-UX, Linux, and Windows systems:

For HP-UX Itanium or PA-RISC systems that are connecting to any server type or for HP-UX servers that display to any desktop via X, you can use the following desktop browsers :

- Mozilla 1.6, 1.7
- Firefox 1.0.2, 1.5, 2.0

For Windows Itanium or x86 systems that are connecting to any server type, you can use the following desktop browsers:

- Internet Explorer 6.0, 7.0
- Mozilla 1.5, 1.6, 1.7
- Firefox 1.0.2, 1.5, 2.0

For Linux Intel Itanium or x86 systems that are connecting to any server type, you can use the following desktop browsers:

- Mozilla 1.5, 1.6, 1.7
- Firefox 1.0.2, 1.5, 2.0

NOTE: Installation of HP SMH does not require a browser.

The HP Web-enabled System Management Software is hardware-dependent. For the installation to complete successfully, your system must support at least 256 colors.

RPMs supported on the x86 platform

HP SMH supports the following Red Hat Package Managers (RPM) for each of the Linux operating systems on the x86 platform.

Operating system	RPM
SUSE Linux Enterprise Server 10 (x86)	• glibc 2.3.90 or later • pam 0.99 or later • perl 5.8.8 or greater • zlib 1.2.3 or greater
SUSE Linux Enterprise Server 9 (x86)	• glibc 2.3.3-98 or later • pam 0.77-221 or later • perl 5.8.0 or greater • zlib 1.2.1 or greater
Red Hat Enterprise Linux 4.0 (x86)	• glibc 2.3.3-36 • pam 0.77-47 or greater • perl 5.8.0 or greater • zlib 1.2.1-3 or greater

RPMs supported on the AMD64 and EM64T platform

HP SMH supports the following RPMs for each of the Linux operating systems on the AMD64 and EM64T platform.

Operating system	RPM
SUSE Linux Enterprise Server 9 (AMD64 and EM64T)	• glibc 2.3.3-98 or greater • pam 0.77-221 or greater • perl 5.8.0 or greater • zlib 1.2.1-70 or greater
Red Hat Enterprise Linux 4.0 (AMD64 and EM64T)	• glibc 2.3.3-36 • pam 0.77-47 or greater • perl 5.8.0 or greater • zlib 1.2.1-3 or greater

RPMs supported on the Itanium platform

HP SMH supports the following RPMs for each of the Linux operating systems on the Itanium platform.

Operating system	RPM
Red Hat Enterprise Linux 4.0 and 5.0 (Integrity platforms)	• glibc-2.3.4 • j2sdk-1-4-2 (version 2.1.7 and earlier) • jrockit-R27.1.0-jdk1.5.0 • net-snmp-utils-5.1.2-11.EL4.6hp • net-snmp-perl-5.1.2-11.EL4.6hp • openssl-0.9.7a-43.8 or greater • pam-0.77-66.14 or greater • perl-5.8.5 or greater
SUSE Linux Enterprise Server 9 and 10 for Integrity Linux	• glibc-2.3.3 or greater • j2sdk-1-4-2 (version 2.1.7 and earlier) • jrockit-R27.1.0-jdk1.5.0 • openssl-0.9.7d-15 or greater • net-snmp-5.1-80.16hp • pam-0.77-221 • perl-5.8.3 • zlib-1.2.1-70 or greater

NOTE: The AMD64 is an AMD Opteron processor.

The EM64T is an Intel Xeon processor with Extended Memory 64 Technology.

The x86 is an Intel Pentium III/IV/Xeon 32-bit processor.

The IPF is an Intel Itanium 64-bit processor.

Verifying system requirements

Before installation begins, the installation utility verifies whether:

- For HP-UX, Linux, and Windows, the operating system meets the minimum requirements. If HP SMH does not support the operating system on a system, an error message appears, indicating that an invalid operating system is found.
- For HP-UX, Linux, and Windows, the user is logged in with administrator/root rights. If the user is not logged in with these rights, an error message appears, indicating that administrator/root rights were not detected.
- For Linux, during a Linux installation on an x86 platform, if the Linux dependencies are not met, the missing dependencies are displayed.
- For Linux, if a dependency is not met on an Itanium platform, the installation will not complete.

Obtaining the HP SMH software

You can obtain HP SMH software from the following HP media and web sites:

HP media

HP SMH is available on the following media:

- HP-UX 11i v3 (B.11.31) Operating Environment DVD, February 2007 or later
- HP-UX 11i v3 (B.11.31) Applications DVD, February 2007 or later
- HP-UX 11i v2 (B.11.23) Operating Environment DVD, May 2005 or later
- HP-UX 11i v2 (B.11.23) Applications DVD, September 2005 or later
- HP-UX 11i v1 (B.11.11) Operating Environment DVD, September 2005 or later
- HP-UX 11i v1 (B.11.11) Applications DVD, May 2005 or later
- HP SmartSetup CD 4.6 or later
- SmartStart CD 7.20 or later
- Support Pack 7.20 or later

HP web sites

The HP web sites are accessible from any system with a web browser and access to the Internet:

- To download the latest software versions, go to the HP web site at http://www.hp.com.
- For HP-UX, you can also find the software on the Software Depot home at http://www.hp.com/go/softwaredepot.
- For Linux and Windows, HP SMH is available in the ProLiant Support Pack and Integrity Support Pack. To download the latest version of the ProLiant Support Pack or Integrity Support Pack, go to the **Support and Troubleshooting** link on http://www.hp.com.

3 Known issues

This chapter contains known issues with the HP System Management Homepage (HP SMH) releases. HP SMH undergoes rigorous testing before releasing any given version of the product. From HP test activities to date, the following items have been uncovered that you should keep in mind. Please also refer to the *HP System Management Homepage Installation Guide* and *HP System Management Homepage Online Help* for known issues.

HP SMH 2.2.6 release for HP-UX

- dtterm is not present on an HP-UX 11i system.

  The Xlaunch text informs the user that some web-based applications require X11 to run.

  This known problem was fixed in the September 2007 release of HP SMH.

- Access to HP SMH is denied during login, or, if login is allowed execution of HP SMH tools fail with a "no authorization" error.

  This problem can occur when the `/var` filesystem is full. In order to fix it, it is necessary to increase the available space in the `/var` filesystem by removing unneeded files or extending the filesystem.

HP SMH 2.2.5 release for HP-UX

- When HP SMH is accessed through HP Systems Insight Manager (HP SIM) and HP SIM is running on the same system as HP SMH, the web browser may present multiple certificate warnings.

  In order to avoid the multiple certificate warnings, you can import both the HP SIM and HP SMH certificates into the web browser. For Internet Explorer, this can be done by selecting the **View Certificate** button in the certificate warning boxes, and then selecting the **Install certificate** button. For Mozilla and Firefox, you can select **Accept this certificate permanently** in the certificate warning boxes.

  This known problem was fixed in the September 2007 release of HP SMH.

- You must use either the command sequence or HP SMH to perform any operation that HP SMH supports. Attempting to start an operation with commands and completing it with HP SMH can result in errors and possibly corrupt data or data structures.

HP SMH 2.2.4 release for HP-UX

- When you run a web plugin such as Disks and File Systems (fsweb) in an HP SMH session, you see an open browser window with a URL address similar to the following: https://*hostname*:2381/cpqlogin.htm. This screen is displayed after you sign out of the session or after the session has timed out. If you leave the window open, after a period of time, the HP SMH server times out.

  If you have a session of fsweb running under HP SMH that has timed out, the open browser window showing the HP SMH Login screen is still available. If you enter a user name and password, then click the **Sign In** button, the following browser message is displayed: Page cannot be displayed.

  In the open browser window with the HP SMH Login screen displayed, you will see a URL address similar to the following: https://*hostname*:2381/cpqlogin.htm. Change the URL

address to use **http://*hostname*:2301**. Click the **Go** button, then wait for the HP SMH Login screen to appear. Enter the user name and password and click the **Sign In** button.

HP SMH 2.2.3 release for HP-UX

- This release corrects the 2.2.2 release problem of numerous unnecessary processes attributed to the System Management Homepage `startup` daemon.
- If you used or will use Bastille to configure an IPFilter-based firewall, either with the Bastille GUI or by selecting the Sec20MngDMZ or Sec30DMZ Install-Time Security levels, you will only be able to access System Management Homepage from the local system.

  To access System Management Homepage remotely, perform these steps:

  1. Add the following rules to the `/etc/opt/sec_mgmt/bastille/ipf.customrules` file:

     — pass in quick proto tcp from any to any port = 2301 Flags S keep state keep frags
     — pass in quick proto tcp from any to any port = 2381 Flags S keep state keep frags

  2. Run `bastille -b`.

     You must run the command with the Bastille configuration file in place at `/etc/opt/sec_mgmt/bastille/config`. This directs Bastille to configure the firewall. See the *bastille*(1m) manpage for details.

HP SMH 2.2.2 release for HP-UX

- The following warning occurs when you use HP-UX Bastille to disable the Apache server on a system that has an System Management Homepage instance of Apache running. The warning confirms that the Bastille configuration you selected does not affect the System Management Homepage Apache server. To continue to run the System Management Homepage Apache server, ignore this message; otherwise, you can disable the System Management Homepage Apache server manually.

```
WARNING: The following processes were still running even though
                the corresponding service appears to be turned off.
                Bastille question and action will be skipped.

         hpsmh 22993 22987  0 10:33:02 ?   0:02 /opt/hpws/apache/bin/httpd -k start -DSSL -f
/opt/hpsmh/conf/smhpd.conf
          root 22987     1  0 10:33:01 ?   0:00 /opt/hpws/apache/bin/httpd -k start -DSSL -f
/opt/hpsmh/conf/smhpd.conf
```

- Please note that Hewlett-Packard did not reissue the HP-UX documentation (online help, install guide, and release notes) for this release. The December 2005 release documentation can be used for this March 2006 release.
- If you are logging in to System Management Homepage from HP Systems Insight Manager (HP SIM), but the System Management Homepage page never appears, then you need to modify a setting in HP SIM so that is always uses a fully qualified name in the URI. For example, in the browser you would only see the *hostname*:2381 at the end of the URI instead of the *fully_qualified_hostname*:2381.

  To configure HP SIM to always use a fully qualified hostname when logging in to System Management Homepage:

  1. Select **Options** ⇒ **Security** ⇒ **System Link Configuration**.

2. Click **Use the system's full DNS name**. Click **OK**.

System Management Homepage should launch correctly.

> 📝 **NOTE:** If the problem still exists, run **Configure** ⇒ **Configure or Repair Agents** against the managed node. Make sure SSH is working by selecting **Configure Secure Shell Access - Host Based authentication** and then **Relationship - Set to Trust by Certificate**.
>
> This causes System Management Homepage to prompt you to accept the certificate the first time you run it from HP SIM. After that, you should be able to launch System Management Homepage without logging in again.

- You may see numerous unnecessary processes attributed to the System Management Homepage `startup` daemon. The processes are instances of the `smhstartd` daemon and `smhredirect` that may never finish and may even remain running when System Management Homepage is shut down. To correct this problem, install the PHSS_34507 (HP-UX 11i v1) or PHSS_34508 (HP-UX 11i v2) patch, depending on your system. Please note that in the HP System Management Homepage 2.2.3 release, this problem is corrected.

HP SMH 2.2 release for HP-UX

- HP SMH already uses the user and group name `hpsmh`. You should not use it for any other purpose.
- The native HP-UX user authentication mechanism, which is used by the HP SMH login, limits the length of user passwords to eight characters. When passwords longer than eight characters are used, the exceeding characters are ignored.

HP SMH 2.1.6 release for Windows and Linux

- The HP SMH interface times out too quickly or not as quickly as required.

  HP SMH 2.1.5 and later provides a way for users to configure the GUI timeout.

  To modify this setting:

  1. As a precautionary measure, copy the existing smhpd.xml file into a different directory.
  2. Manually add the tag:
     a. Open the smhpd.xml in the \hp\hpsmh\conf directory on the boot drive with a text editor.
     b. Add the following line between the <system-management-homepage> and </system-management-homepage> tags:

        ```
        <ui-timeout>any value between 10 and 3600</ui-timeout>
        ```

     c. Save the file.
  3. Restart the HP SMH service.

HP SMH 2.1.4 release for Windows and Linux

- When a system is running near the limit of the number of threads or processes its resources can support, HP SMH may not be able to start.

  HP SMH 2.1.4 provides a way for users to reduce the number of threads required to avoid this issue. Modifying this setting might affect HP SMH response time and throughput.

  To modify this setting:

  1. As a precautionary measure, copy the existing smhpd.xml file into a different directory.

2. Manually add the tag:
   a. Open the smhpd.xml in the \hp\hpsmh\conf directory on the boot drive with a text editor.
   b. Add the following line between the <system-management-homepage> and </system-management-homepage> tags:

      `<max-threads>value</max-threads>`

      Note: The value can be 64-512 on Windows systems or 25-64 on Linux systems. The default value for Windows systems is 250 and the default for Linux systems is 25.

   c. Save the file.
3. Restart the HP SMH service.

- HP SMH 2.1.4 supports the following:
  - SSLv2

    Note: SSLv2 is disabled by default.

  - SSLv3
  - TLSv1

  To enable the use of SSLv2 in the HP SMH:

  1. As a precautionary measure, copy the existing smhpd.xml file into a different directory.
  2. Manually add the tag:

     Note: To set this configuration on a group of servers, this setting is included in those affected by the Replicate Agent Settings feature in HP SIM. The source server must be configured manually using the following steps and then the setting can be installed simultaneously to other systems using HP SIM.

     a. Open the smhpd.xml in the \hp\hpsmh\conf directory on the boot drive with a text editor.
     b. Add the following line between the <system-management-homepage> and </system-management-homepage> tags:

        `<disable-sslv2>False</disable-sslv2>`

     c. Save the file.
  3. Restart the HP SMH service.

- The Management Processor link in HP SMH's left navigation menu will not launch a Telnet application when clicked from the 32-bit version of Internet Explorer on Superdome systems running 64-bit Windows.

  All Intel Itanium systems MP interface is web-based http protocol with the exception of the Superdome systems. The Superdome systems' MP interface is Telnet based.

  Note: This issue is not applicable to x86 systems running Internet Explorer on 32-bit Windows or to Intel Itanium systems running Internet Explorer on 64-bit Windows.

  HP recommends the following workarounds for Superdome systems:

  - Browse to HP SMH remotely from a 32-bit Windows system.

    or

  - On Itanium-based systems, do not use the **Management Processor** (MP) link on the HP SMH. Access the management processor through Telnet using the MP IP address.

HP SMH 2.0 release for Linux

- HP SMH already uses the user and group name `hpsmh`. You should not use it for any other purpose.
- The user and group ID of 79 no longer must be available for use with HP SMH.

HP SMH 2.0 release for Windows

- HP SMH becomes inaccessible after installing Windows XP Service Pack 2. In addition, HP Systems Insight Manager and the HP Version Control Repository Manager are inaccessible.

  The Windows XP Service Pack 2 implements a software firewall that prevents browsers or other clients from accessing the ports required for access to the Version Control Repository Manager. To resolve this issue, you must configure the firewall with exceptions to allow access through the ports used by HP Systems Insight Manager, Version Control Agent, and other Version Control Repository Managers.

  HP recommends the following actions:

  1. Select **Start** ⇒ **Settings** ⇒ **Control Panel**.
  2. Double-click **Windows Firewall** to configure the firewall settings.
  3. Select **Exceptions**.
  4. Click **Add Port**.

     You must enter the product name and the port number.

     Add the following exceptions to the firewall protection:

Product	Port Number
HP SMH Insecure Port	2301
HP SMH Secure Port	2381

  5. Click **OK** to save your settings and close the **Add a Port** dialog box.
  6. Click **OK** to save your settings and close the **Windows Firewall** dialog box.

  This configuration leaves the default SP2 security enhancements intact, but will allow traffic over the ports indicated above. The secure and insecure ports must be added to enable proper communication from your browser and other clients that access the Version Control Repository Manager.

- During HP SMH installation on a Windows XP system, using an ampersand (&) character in the group name prevents you from logging into HP SMH after installation. HP recommends that you avoid using the ampersand (&) character in group names.
- HP Systems Insight Manager features do not support the use of Extended ASCII characters when specifying the HP Systems Insight Manager system. The use of Extended ASCII characters does not allow the trust relationship to establish.

Index